



Durachrome® 70DB

DESCRIPTION: Direct-bonded magnesia-chrome brick made from high-purity magnesia and chrome ore. Improved thermal shock resistance.

USES INCLUDE: Electric furnace roofs and sidewalls
AODs
Degassers
Copper Converters
Lead Smelters
Nickel Converters
Ladle Working and Tank Linings

CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate % - calcined basis)

MgO	70 %
Cr ₂ O ₃	13.5 %
SiO ₂	1.4 %
Al ₂ O ₃	5.0 %
Fe ₂ O ₃	10 %
CaO	1.4 %

TYPICAL AS RECEIVED PROPERTIES:

Apparent Porosity %	</=18.0
Bulk Density, pcf (g/cm ³)	194(3.10)
CCS psi (Mpa)	4350(30)
HMOR, 2700F psi (Mpa)	290(2)
RUL, °F(°C)	>3092(1700)
Thermal conductivity, BTU/sf/hr2(W/MK)	
400°F(200°C)	25.3
800°F(426°C)	26
1200°F(648°C)	25.6

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally, and as a function of size and shape. This form is not intended to be used for purposes of specification, it is informational only.

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